Petr Stepanov

`Materials science. Gamma spectroscopy. Data analysis and computer simulations.`

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Summary

Ph.D. graduate with expertise in gamma spectroscopy, positron annihilation spectroscopy, microscopy, and nuclear physics. Strong background in computational techniques: data anayysis, particle simulations, software development (desktop and web applications).

Graduated from BGSU in May 2020. Seeking to become an effective member of a research group in the industry. Authorized to work in the US on Optional Practical Training (OPT) in physics, chemistry, and computer science. OPT expires in February 2023. Will consider visa sponsorship offers.

Computer Skills

Simulation and data analysis: Geant4, CERN ROOT, Wolfram Mathematica, Maple.

Academic writing: LaTeX, MS Office Suite, Zotero.

Data plotting: OriginLab, Gnuplot, QtiPlot, SciDaVis, Grapher.

Desktop applications development: C/C++ and Qt, GNU Automake, CMake, Java and Swing, Python, Fortran.

UI/UX design: Figma, Sketch, Adobe Photoshop, Adobe Illustrator, Inkscape, Blender.

Frontend: HTML, CSS (LESS and SASS), Bootstrap, responsive web design, JavaScript and jQuery, npm, gulp, AngularJS, React.js. Google Web Toolkit. PHP and WordPress themes development.

Material Research Skills

Characterization facilities. Positron Lifetime and Doppler Broadening Annihilation Spectroscopy (PALS, DBAR). Atom Probe Tomography (ATP). Scanning Electron Microscopy (SEM). Transmission electron microscopy (TEM). Atomic Force Microscopy (AFM). UV-VIS Spectroscopy. Fourier Transform Infrared Spectroscopy (FTIR).

Material processing. High-temperature annealing. Wet chemical etching. Electrical Contact Fabrication. Sample polishing.

Work Experience

Research Collaborator (On-Site)

Postdoctoral Researcher (Remote)

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